

Measurement of the Diffusion Coefficient in Solids
at Different Temperatures With a Continuous Method Using
the Technique of Radioactive Surfaces, by
J. Nalting, 10 pp.

GERHARD, Peter, Zeit Physik Chem, Vol XXXII, 1962,
pp 154-167, 9207663.

ABC-Tr-5761
ATS -893 - G I

Sci - Phys
Jun 63

231,922

Reaction Mechanism in the Formation of Spinel
in the Solid State, by Hermann Schmalzried, 23 pp.

GERMAN, per, Zeit. fuer Physikalische Chemie,
Vol XXXIII, pp 111-128, 1962. 9215578

AEC-UCRL-Tr-961(L)

Sci-Phys
Nov 63

241,372

The Kinetics of the Sulfidation of Silver,
by St. Mrowec, 7 pp.
GERMAN, per, Z. Phys. Chem. N.F. 32,
1962, pp. 212-218.
*NBS TT 70-57830

Sci/mat
Jun 70

Kangro, Walther.

CONCENTRATED AQUEOUS SOLUTIONS, II
[Konzentrierte Wässrige Lösungen, II.] [1963] 31p 13refs
Order from SLA \$8.60

TT-63-20708

TT-63-20708

I. Kangro, W.

Trans. of Zeitschrift für Physikalische Chemie
[Frankfurt] (West Germany) 1962, Neue Folge, v. 32,
no. 5/6, p. 273-295. (Abstract available)

DESCRIPTORS: *Solutions, *Thermochemistry,
Water, Electrolytes, *Dissociation, *Enthalpy,
*Chemical equilibrium, Vapor pressure.

On the base of the assumption that the dissociation
energy is equal (with opposite sign) to the work
required to decompose the water associates during
the dissociation, and using the theory of the water
associates of Eucken as a base of the calculations,
(Chemistry--Physical, TT, v. II, no. 4) (over)

Office of Technical Services

Electrotransport in Ag-Zn Alloys, by
H. G. Feller, et al, 22 pp.
GERMAN, par, Zietschrift fur Physikalische
Chemie Neue Folge, vol 33, 1962, pp.298-319
*CFSTI TT 70-58097
AVAILABLE FROM NBS ONLY

Sci/chem
Apr 70

Investigation of Uniform Dissolution and
Pitting of Aluminum Electrodes by H.
Kneusche, 20 pp.

GERMAN, Zeitschrift für Physik, Chemie,
Frankfurt, 1962, No 34, 221-222
pp. 87-108. 921.2.6 - 6

AEC-tr-5888

Sci - Chem
Oct 63

Staricco, H. H., Slote, J. E., and Schumacher, H. J.
KINETICS OF THE PHOTOCHEMICAL REACTION BE-
TWEEN SULFUR TRIOXIDE AND FLUORINE. [1963]
7p 2refs
Order from SLA \$1.10

TT-64-10959

I. Staricco, H. H.
II. Slote, J. E.
III. Schumacher, H. J.

Trans. of Zeitschrift für Physikalische Chemie [Frank-
furt] (West Germany) 1962 [Neue Folge] v. 33, no. 1/3,
p. 122-138.

(Chemistry--Physical, TT, v. 11, no. 11)

Office of Technical Services

Gatti, R., Staricco, E., Sicre, J. E., and Schumacher,
H. J.
THE PHOTOCHEMICAL DECOMPOSITION OF P₂O.
[1963] 5p Strefa
Order from SLA \$1.10

TT-64-10962

TT-64-10962

I. Gatti, R.
II. Staricco, E.
III. Sicre, J. E.
IV. Schumacher, H. J.

Trans. of Zeitschrift für Physikalische Chemie
[Frankfurt] (West Germany) 1962 [Neue Folge] v. 35,
no. 4/6, p. 343-367.

(Chemistry--Physical, TT, v. 11, no. 11)

Office of Technical Services

Dosimetry of Fast Electrons Using
Iron Sulfate, H. Liesem, W. Pohlitz.
GERMAN, per, Zeit. Phys. Chem., Vol 35,
No 4/6, 1962, pp. 352-67.
NLL Ref: 5809.95(T6103)

Sci-Phys
July 69

-477-727
387 428

Noller, H., Hantke, Elfriede, and Schwab, G.-M.
ON THE DIFFUSION KINETICS OF HETEROGENEOUS CATALYSIS. II. RELATIONSHIP OF THE ACTIVATION ENERGY AND PORE RADIUS; ON DIFFERENTIATION OF DIRECT AND INDIRECT EFFECTS OF DOSING. 13p 23refs
Order from SLA \$1.60

TT-64-16676

Trans. of [Zeitschrift für Physikalische Chemie (Frankfurt) (West Germany) 1963] Neue Folge, v. 36, no. 1/2, p. 103-117].

TT-64-16676

I. Noller, H.
II. Hantke, E.
III. Schwab, G.-M.
IV. Title: Relationship ...
V. Title: On differenti-

(Chemistry--Physical, TT, v. 12, no. 4)

Office of Technical Services

The Critical Supersaturation of Slightly Soluble Salts Homogeneous Precipitation by the Two-Phased Method, by A. Fabrikanos,
K. H. Lüsser.
GERMAN, per, Z für Phys Chem, Vol XXXVI,
1963, pp 232-235. P911s 78766
AEC-RPP-tr-15

Sci - Chem
Jul 66

305,843

Electrolytic Studies of Hydrogen Diffusion in
Homogenous PD-Ag-H Alloys, by A. Kussner.
GERMAN, per, Zeit Phys Chem, Vol 36, 1963,
pp 383-386.
*Nat Bur Stand TT 70-57817

Sci-Phys
Jul 70

<p>Gatti, R., Staricco, E. H., Sicre, J. E., and Schumacher, H. J. THE PHOTOCHEMICAL REACTION BETWEEN FLUORINE MONOXIDE AND SULFUR TRIOXIDE. [1963] 10p 3refs Order from SLA \$1.10</p> <p>TT-63-20986</p> <p>Trans. of Zeitschrift für Physikalische Chemie [Frankfurt] (West Germany) 1963, Neue Folge v. 36, no. 3/4, p. 211-220.</p> <p>DESCRIPTORS: *Photochemistry, *Fluorine compounds, Monoxides, *Sulfur compounds, Oxides, Peroxides, Fluorides, Reaction kinetics.</p> <p>The photochemical reaction between fluorine monoxide and sulfur trioxide in light of the wave-length of 365 mμ, was investigated at temperatures between 20 and 450°C. In the reaction, sulfur monoxide fluoride peroxide (F_2SO_4) (Chemistry--Physical, TT, v. 11, no. 9) (over)</p>	<p>TT-63-20986</p> <p>I. Gatti, R. II. Staricco, E. H. III. Sicre, J. E. IV. Schumacher, H. J.</p> <p>Office of Technical Services</p>
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Measuring the Diffusion Coefficient from X-Absorption Studies, by W. Biermann.
GERMAN, per, Zeit Phys Chem, Vol 37, 1963,
pp 137-149.
*Nat Bur Stand TT 70-57797

Sci-Phys
Jul 70

On the Measurement of Surface Diffusion
of Ca Atoms Over Faces of Different
Orientation of Some Solid Crystals,
by K. Neumann, 17 pp.
GERMAN, per, Z. Phys. Chem. N.F. 37,
1963, pp. 150-166.
*NBS TT 70-57832

Sci/chem
Jun 70

Critical Fluctuations and Critical Opalescence
of Binary Systems, I. Theory of Critical Fluc-
tuations, by A. Munster and Ch. Schneeweiss.
GERMAN, per, Z. Phys. Chem., New Series 37, 1963,
pp 353-368.
P911361367
ABC ORNL-TB-1734

Sci.-Phys.-Chem
Nov 67

343,650

Critical Fluctuations and Critical Opalescence
of Binary Systems. II. Critical Opalescence of
X-Rays and Visible Light, by A. Munster and Ch.
Schmeidewies.

GERMAN, per, Zechr. f. Physikal. Chem., New
Series 37, 1963, pp 369-386.
P911341467
AEC ORNL-TK-1735

Sci/Chem
Nov 67

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343,626

Equilibrium Measurements of the Reaction of
Carbon Tetrachloride with Calcium Fluoride
to Form Trichlorofluoromethane, by G.
Schlemann.

GERMAN, per Z. phys. Chem. Neue Folge, Vol.
38, 1963, pp 56-69
GB 39/HO 2273

Sci -
Aug 67

337-567

Ion and Electron Conduction in Binary Oxides and Their
Study by Means of E.M.F. Measurements, by
Hermann Schmalzried, 17 pp.
GERMAN, per, Z fuer Physikalische Chemie, Vol XXXVIII,
1963, pp 87-102. 7222642
AEC-SC-T-625001-44

AISI 4784

Sci-Nucl Sci
Jun 64

260,933

Transport Numbers at High Electrolyte Concentrations. I. Fundamentals, by R. Haase, 25 pp.
GERMAN, per, Z fuer Physikalische Chemie, Vol XXXIX,
1968, pp 27-44.
AEC-UCRL-Tr-1070(L)

Sci-Phys
Dec 64

269,949

ALSO T-65-18007

Doping Organic Photoconductors, by Hans
Meier, Wolfgang Albrecht, 15pp.
GERMAN, per, Zeitschrift fur Physikalische
Chemie, Vol 39, No 3/4, pp 249-261.
CFSTI TT-64-20087.

322,639

Sci - Materials
Mar 67

Photophysical Reactions of Fluorine and Fluorine Monoxide with Thionylfluoride, by E. Castellano,
H. J. Schumacher.
GERMANY, per, Z. für Physikalische Chemie, Vol XL,
No 1, 2, 1964, pp 51-63.
Dept of Navy 4113/APL-JHU T 1237

Sci p Hy
Sci - Phys
Jun 66

279,609

Photophysical Reactions of Fluorine and Fluorine Monoxide with Peroxydisulfuryl Fluoride (F₂S₂O₆),
R. Gatti, J. E. Sircar, et al.
GERMAN, per, Z. für Physikalische Chemie, Vol XL,
No 1, 2, 1964, pp 127-135.
Dept of Navy 4114/APL-JHU T 1244

Sci - Phys
Jun 65

279,610

Propagation of Detonation in Hydrazine Vapour, by H.J.
Heinrich.
GERMAN, per Z. Phys. Chem. N.F. Vol. 42, No. 3/4, 1964,
pp 149-165
GB 82/5076

Sci -
Aug 67

339-506

TT-65-13756

Field 7D

Hartmann, H.; Bosche, H. G.; Heydtmann, H.
EFFECT OF THE LENGTH OF CHAIN ON THERMAL
DECOMPOSITION KINETICS OF PRIMARY CHLOROAL-
KANES. 13p, 89refs.
Order from SLA: \$1.60 as TT-65-13756

Trans. of Zeitschrift fuer Physikalische Chemie
Frankfurt (West Germany) v42 n5/6 p329-43 1964.

MR 664

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Ionic and electronic conductivities in some titanate minerals as
by: TAYLOR, W. B.

Fleisch: Frankfurter Zeitschrift für physikalische Chemie

Vol. 43, 1964: 30-31 (3-18)

Gettin' - est for wds:

Please translate and type 1 original copy only
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REF ID: A6514
((ANL-Trans-880) IR-SPECTROSCOPIC INVESTIGA-
TIONS OF THE CRYSTALLINE TETRAHYDRATE OF HYDROGEN
BROMIDE $H_2O_4^{+}Br^-$. Rudolph, Joachim; Zimmermann, Herbert.
Translated for Argonne National Lab., Ill., from Z. Phys.
Chem. (Frankfurt); 43: 311-26(1964). 12014p. 24 Dep. NTIS.

24chemistry (inorganic); translations 2107B

24MN-4 29P NSA

Meyerhoffer, W. and Saunders, A. P.
THE EQUILIBRIUM PHENOMENA OF RECIPROCAL
SALT PAIRS IN SIMULTANEOUS PRESENCE OF A
DOUBLE SALT, PT. I. [1962] 40p. (14 figs., 14 tables
omitted).

Order from SLA \$3.60

62-14517

Trans. of Zeitschrift für Physikalische Chemie
Leipzig (Germany) 1899, v. 28, p. 453-493.

DESCRIPTORS: Chemical equilibrium, Salts.

62-14517

I. Meyerhoffer, W.
II. Saunders, A. P.

(Unannounced)

Office of Technical Services

Barker, R. and Goldberg, Ismael.
CONTRIBUTION TO THE KINETICS OF PHOTOCHEMICAL CHLORINATION. I. THE INHIBITION BY OXYGEN OF THE CHEMICAL CHLORINATION REACTION IN RELATION TO THE PHOTOCHLORAL INDUCTION, DECOMPOSITION AND ACTIVATION. [1963] [15]: p. 26 refs.

1. L. from: CIA \$1.60

65-10973

Transl. of [Leitung für die Physikalisch-Chemische, Leipzig] (Germany) 1906, v. 56, p. 43-56.

DESCRIPTORS: *Photochemistry, Reaction Kinetics,
*Chlorination, Inhibition, Oxygen.

(Chemistry--Physical, TR, v. 10, no. 2)

65-10973

I. Barker, R.
II. Goldberg, I.
III. Title Definition...

Office of Technical Services

Lewis, William C. McC. ADSORPTION AND ITS RELATION TO THE GIBBS THEORY. 3. THE ADSORBING MERCURY SURFACE (Die Adsorption in Ihrer Beziehung zur Gibbschen Theorie. Dritte Abhandlung: Die Adsorzierende Quecksilberoberfläche). [1963] [39p] (foreign text included) 12refs Order from SLA \$3.60	TT-64-14278	TT-64-14278 I. Title: Gibbs phase-rule I. Lewis, W. C. M. II. Title: Adsorbing...
Trans. of Zeitschrift für Physik[alische] Chemie [Leipzig] (Germany) 1910, v. 73, p. 129-147 (originally pub. in English).		
DESCRIPTORS: *Thermochimistry, *Phase studies, *Mercury, Surface properties, Absorption,		

(Chemistry--Physical, TT, v. 11, no. 7)

Office of Technical Services

Novak, J.
THE MAGNESIUM CARBIDES [PT.] I. [1962] [27]p.
3 refs.
Order from SLA \$2.60

62-18937
I. Novak, J.

Trans. of Z[eitschrift für] Physikalisch Chemie
Leipzig (Germany) 1910, v. 73, p. 513-546.

DESCRIPTORS: *Magnesium compounds, *Carbides,
Water, Chemical reactions, Decomposition, Tempera-
ture, Acetylenes, Propynes, Quantitative analysis.

The present investigation proves the existence of two
distinct magnesium carbides, MgC₂ and Mg₂C₃, which
is the first and thus far only instance where a metal
forms two simple carbides. This is the more interest-
ing since both carbides, when decomposed with water,
furnish two different alkynes, acetylene and methyl-
acetylene. Both carbides can be prepared very easily.
(Chemistry--Physical, TT, v. 9, no. 8) (over)

Office of Technical Services

The Behaviour of Solid and Molten Copper with Respect
to Oxygen, by A. Sieverts, W. Krumbhaar, 41 pp.

GERMANY, PER, Z fuer Physik Chem (Leipzig), Vol. IXXIV,
1910, pp 277-307.

HP
AEC Tr 276

Sci - Chem

Oct 59

98,903

APPROVED FOR RELEASE: Thursday, May 16, 2002

CIA-RDP84-00581R000401250057-4

ZEITSCHRIFT FÜR PHYSIKALISCHE CHEMIE, LEIPZIG
1911 V77 NS PGH1 70-22014 40

order from NIN.

APPROVED FOR RELEASE: Thursday, May 16, 2002

CIA-RDP84-00581R000401250057-4

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Piotrowski, W. von. THERMAL EXPANSION OF PARAFFIN AND PARAFIN SOLUTIONS. [1962] 6p. (formulae table refe. omitted). Order from SLA \$1.10	62-18239 I. Piotrowski, W. von.	
Trans. of Zeitschrift für Physikalische Chemie. [Leipzig] (Germany) 1919, v. 93, p. 596-606. DESCRIPTORS: *Hydrocarbons, *Petroleum, *Tar, Solutions, *Thermal expansion, Weighing, Density, *Methane.	62-18239	Office of Technical Services

APPROVED FOR RELEASE: Thursday, May 16, 2002

CIA-RDP84-00581R000401250057-4

order from NBC.

APPROVED FOR RELEASE: Thursday, May 16, 2002

CIA-RDP84-00581R000401250057-4

Blitz, Wilhelm and Klemm, Wilhelm.
SOME FUSED ELECTROLYTES. [1963] [37p] 36refs
Order from SLA \$3.60

TT-63-20776

Trans. of Z[eitschrift für] Physikalische Chemie.
Leipzig] (Germany) 1916; v. 110, p. 318-342.

DESCRIPTORS: *Fused materials, *Electrolytes,
*Lithium compounds, *Rubidium compounds, *Cesium
compounds, *Copper compounds, *Magnesium com-
pounds, *Zinc compounds, *Cadmium compounds,
*Chlorides, Electrolysis, Electrical properties,
Physical properties.

(Chemistry--Physical, TT, v. 11, no. 3)

TT-63-20776

I. Blitz, W.
II. Klemm, W.AEC-A1-Tr-46
(9223545)

Office of Technical Services

ZEITSCHRIFT FUER PHYSIKALISCHE CHEMIE, LEIPZIG
1912-1919-Nr. 1-100 70-22018 <*>
1917-KMB-Nr. P429-368 70-21509-44
1921-N90-P23-100 70-21510-44
1924 V110 P760-T85 70-21216 <*>

order from NNC

SEARCHED _____	
Jellinek, K. and Tomoff, G. EQUILIBRIA BETWEEN SODIUM AND POTASSIUM AND THEIR CHLORIDES IN THE LIQUID, MOLTEN STATE, AND THE PREPARATION OF LEAD ALLOYS OF ALKALINE EARTHS. [1963] 19p. (figs. tables refs. omitted). Order from SLA \$1.60	63-16176
Trans. of Zeitschrift für Physikalische Chemie. [Leipzig] (Germany) 1924, v. 111, p. 234-250.	I. Jellinek, K. II. Tomoff, G.
DESCRIPTORS: *Sodium, *Potassium, *Chlorides, Liquid metals, *Chemical equilibrium, Fused materials, *Lead alloys, *Alkaline earth metals, Alloys, Phase studies.	
(Chemistry--Physical, TT, v. 10, no. 7)	Office of Technical Services

Antropoff, A. v. and Sommer, W.
THE SPACE DIAGRAM OF THE TERNARY SYSTEM
NaOH-NaCl-H₂O. Thesis, Institute of Technology,
Karlsruhe, 1925. [1963] 40p. (figs. omitted) 36 refs.
Order from SLA \$3.60

63-18135

Trans. of Zeitschrift für Physikalische Chemie
[Leipzig] (Germany) 1926, v. 123, p. 161-198.

DESCRIPTORS: *Sodium compounds, *Hydroxides,
*Chlorides, Water, *Phase studies, Fused materials.

63-18135

I. Antropoff, A. v.
II. Sommer, W.

(Chemistry--Physical, TT, v. 10, no. 11)

Office of Technical Services

On the Absorption Spectra of Negative Halogen
Ions in Solution, by J. Franck, G. Scheibe, 9 pp.
GERMAN, per, Z Phy Chem (Leipzig), Vol 139, 1928.
pp 22-31.
AEC/ORNL-Tr-1896-70

Sci/Phy

Ann 70

105 654

ZEITSCHRIFT FÜR PHYSIKALISCHE CHEMIE, LEIPZIG
1921-1922-Nr.1-10441 70-22014 <*>
1923-Nr.4-Nr.1-P1829-100 70-21509 <*>
1921-Nr.4-Nr.1-P1829-100 70-21510 <*>
1924-Nr.3-1-P1829-705 70-21216 <*>
1928 V139 P22-31 ORNL-TH-1896 <=>
1928 V139 P58-106 70-23023 <*>

REPRINT FROM N.Y.C.

(SC-T-713074) CRYSTAL STRUCTURE OF ACID
COMPOUNDS OF GRAPHITE. Ruedorff, W. Translated by
Pat Newman (Sandia Labs., Albuquerque, N. Mex.), from
Z. Phys. Chem. (Leipzig); 45: No. 1, 42-68(1939). 48p.

chemistry (physical); crystallography; translations

ND-4 P RC

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1928-V139 P001-106
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70-22644 577

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1923-NP1-N2-#112-#060 <-->
1923-NP1-P231-#41 <-->
1923-NP1-N26H-#05 <-->
1923-H3-M1-P22-#1 <-->
1923-H3-M1-P22-#1 <-->

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CIA-RDP84-00581R000401250057-4

70-23461 <>
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1963 V193 P1-15

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CIA-RDP84-00581R000401250057-4

The Separation Tube. V. Preparation of O^{18} .
by H. GERMANN, G. BIELMEYER.
by H. GERMANN, G. BIELMEYER.

GERMANY, 1944, Z. Physik Chem., Vol. CXLII,
1944, Leipzig, pp. 274-286.

AEC-Tr-3692

Sci - Chem
Jul 59

92, 054

63-14053

Sanger, Eugen.
THEORY OF PROPELLANT BURNING. [1963] 9p.
(figs. omitted).
Order from SLA \$1.10

I. Sanger, E.

63-14053

Trans. of Zeitschrift für Physikalische Chemie
[Leipzig] (East Germany) 1951, v. 197, p. 265-276.

DESCRIPTORS: *Propellants, Combustion, Theory,
Powders, Thermochemistry, Velocity, Pressure,
Temperature, Solids.

(Chemistry--Physical, TT, v. 10, no. 5)

Office of Technical Services

The Modifications of Na_2BeF_4 and Their Relationship to Those of Ca_2SiO_4 . Investigations of Silicate-Type Struggles III., by Erich Thilo, Friedrich Liebau, 32 pp.

GERMAN, per, Z Physik Chem, Vol CXIX, 1951,
Leipzig, pp 125-141.

AEC NP-tr-293

Sci - Phys, Chem
Feb 60

107,560

Vetter, K. J.

THE MECHANISM OF FORMATION OF THE IODINE-
IODIDE OXIDATION-REDUCTION POTENTIAL AT
PLATINUM DERIVED FROM THE ALTERNATING
CURRENT POLARIZATION. [1961] 11p.
Order from ATS \$13.50

ATS-45N56G

Trans. of Z[eitschrift für] Physik[alleche] Chemie,
Leipzig) (East Germany) 1952, v. 199, no. 5/6,
p. 285-299.

DESCRIPTORS: *Iodine, *Iodides, Oxidation-reduction
reactions, *Platinum, Alternating current,
Polarization.

(Chemistry--Physical, TT, v. 7, no. 6)

62-12219

I. Vetter, K. J.
II. ATS-45N56G
III. Associated Technical
Services, Inc., East
Orange, N. J.

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CIA-RDP84-00581R000401250057-4

1952 W201 6576 P223-245 70-23463 (S)
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APPROVED FOR RELEASE: Thursday, May 16, 2002

CIA-RDP84-00581R000401250057-4

<p>Klee, H. and Witte, H. THE MAGNETIC SUSCEPTIBILITIES OF TERNARY MAGNESIUM ALLOYS AND THEIR INTERPRETATION ACCORDING TO THE ELECTRON THEORY OF METALS. [1961] 20p. Order from ATS \$24.95</p> <p>Trans. of Z[eitschrif für] Physik[alleche] Chemie, Leipzig] [East Germany] 1953/54, v. 202, no. 5/6, p. 352-378.</p> <p>DESCRIPTORS: *Magnesium alloys, Magnetic susceptibility, Metals, Electrons, Theory.</p> <p>(Physics--Magnetism, TT, v. 6, no. 8)</p>	<p>61-25031</p> <p>I. Klee, H. II. Witte, H. III. ATS-93N52G IV. Associated Technical Services, Inc., East Orange, N. J.</p> <p>ATS-912-GJ</p> <p>11-3198</p> <p>Office of Technical Services</p>
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The Electrical Conductivity of Glass
Part I. The Conductivity of Mixed
Glasses, by B. Lengyel, Z. Boksay.
GERMAN, per, Zeitschrift fuer Physika-
lisched Chemie (Leipzig), Vol 203, No
1/2, 1954, pp. 93-112.
NTC 69-11735-07D

Sci-Chem
July 69

386,642

A Study of the Heterogeneous Liquid-Vapor Equilibrium. Part 1, A General Equation of State for Saturated Vapors, by E. Kordes,

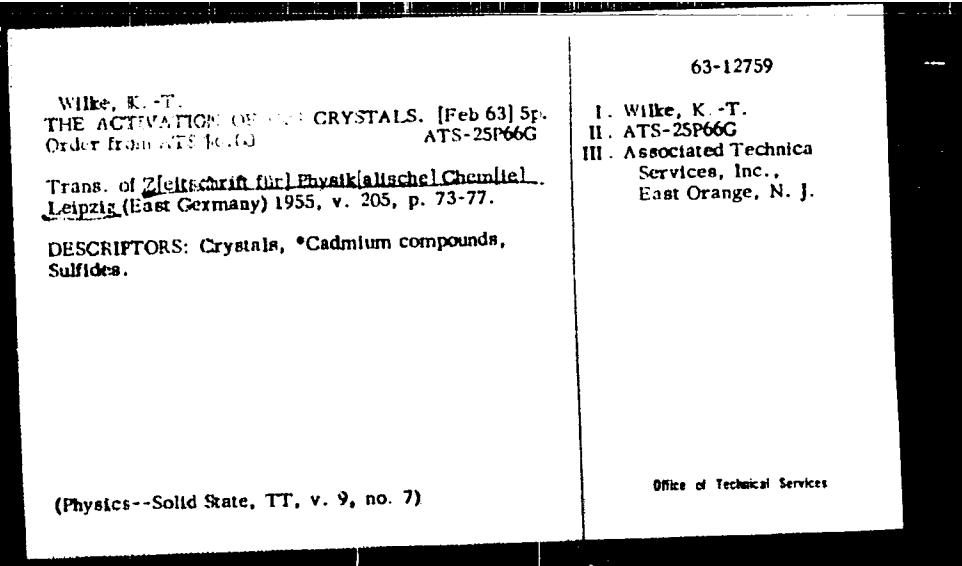
GERMAN, per, Z Physik Chem, Vol CCIII, No 5-6,
1954, pp 2655274.

ADS 472-GJ

Sci - Chem

Aug 60

123, 362



On Investigations for the Purpose of Explaining
the Adhesion of Carbon Layers on Porcelain,
by G. Becherer, 17 pp.

GERMAN, per, Z. Phys Chem, Vol CCV, 1956,
pp 208-216.

SLA 57-2461

Jul 58

69, 948

On Investigations for the Purpose of Explaining the Adhesion of Carbon Layers on Porcelain, by G. Becherer, 11 pp.

GERMAN, par, Z. Phys Chem, Vol CCV, Leipzig, 1956, pp 253-260.

SLA 57-3182

Sci

72,470

Aug 58

Carbon Layers With Diamond Structure, by
Heinz Schmelienmeier.

GERMAN, per, Zeitschrift fur Physikaliche Chemie,
(Leipzig), Vol 205, No 6, 1956, pp 349-350.

NEC SC-T-66-0733 P911081666
BDC-6-24-66

Sci/Physics
Jun 66

Remarks on the Classification of the
Crystal Structures of Silicates with
Highly Condensed Ions, by F. Liebau.
GERMAN, per, Zeitschrift fuer Physik-
alische Chemie (Leipzig), Vol 206,
No 1/2, 1956, pp. 73-92.

Sci-Phys.
July 69

386,708

The Evaporation of Oxide Coated Coatings, Part I,
by J. Adam, K. Etter, Gy. Gergely, P. F. Varadi.

CHENNAI, per, Zeitschrift fur Physikalische Chemie,
Vol. CXXIX, 1957, pp 70-80.

Dept of Int.
US Bur of Mines
Petroleum Exper Sta Lib,
Bartlesville, Okla. No 49

Sci - Chem

May 59

87,704

The Determination of Ion Adsorption and Zero-Point
Potential With the Aid of Labelled Atoms, by N. A.
Balzachova, 15 pp.

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AND OZONE. 8 Feb 61, 20p. (fig. omitted) 23 refs.
Order from SLA \$1.60

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I. Schumacher, H. J.
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Trans. of Zeitschrift für Physikalische Chemie,
[Leipzig] (Germany) 1928, v. 136A, p. 77-92.

DESCRIPTORS: Chemical reactions, *Oxides, *Nitrogen compounds, *Ozone, *Reaction kinetics, Decomposition, Molecular spectroscopy.

It is shown that a bimolecular reaction takes place between N_2O_5 and O_3 . The reaction is probably a chain reaction. Its rate can be represented by the equation

$$\frac{dC}{dt} = 8.7 \cdot 10^{15} e^{-\frac{22000}{RT}} \cdot C_1 \cdot C_2$$
. It has been shown spectroscopically that with the action of ozone (Chemistry--Physical, TT, v. 10, no. 1) (over)

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DESCRIPTORS: *Friction, Surface tension,
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